CIVIL PRO
AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub Division.(Additional)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
2	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
3	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
4	TACK COAT	Rate of spread	One Test		1	1

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TEST RESULTS OF GRADATION FOR WMM

Date: 26-05-22

Lab ID	:	CP-RW-2022-06-13-13
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub Division.(Additional)
Agency	:	Sri. Samba shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapuram, Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/42/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-05-22
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	24-05-22
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	311	311	2.8	97.2	95-100
22.4	2259	2570	23.4	76.6	60-80
11.2	2179	4749	43.2	56.8	40-60
4.75	2256	7005	63.7	36.3	25-40
2.36	1626	8631	78.5	21.5	15-30
0.6	623	9254	84.1	15.9	8-22
0.075	1329	10583	96.2	3.8	0-5

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Quality Manager

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2022-06-13-13**	**Date: 26-05-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub Division.(Additional)	
Agency	:	Sri. Samba shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapuram, Bangalore-560097.	
Customer Reference	:	BBMP/EE/BTP/WO/42/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	24-05-22	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of Test	:	24-05-22	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	301.5	301.5
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	70.2	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	231.0	227.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.4
5	Aggregate impact value	(B/A)*100	23.3	24.5
6	Aggregate impact value (Mean of two tests)	Pecentage	23.9	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	CP-RW-2022-06-13-13 **Date: 26-05-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub Division.(Additional)
Agency	:	Sri. Samba shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapuram, Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/42/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-05-22
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	24-05-22

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.1%	
Combined Flakiness and Elongation Index for WMM	24.9%	

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Date: 03-06-22

Lab ID	:	CP-RW-2022-06-13-13
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub Division.(Additional)
Agency	:	Sri. Samba shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapuram, Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/42/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-06-22
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of Test	:	01-06-22
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Date: 04-06-22

Lab ID	:	CP-RW-2022-06-13-13
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub Division.(Additional)
Agency	:	Sri. Samba shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapuram, Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/42/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-06-22
Type of Mix	:	BC(Bitumenous Concrete)
Date of Test	:	01-06-22

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2022-06-13-13** **Date: 04-06-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub Division.(Additional)
Agency	:	Sri. Samba shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapuram, Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/42/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-06-22
Type of Mix	:	BC(Bitumenous Concrete)
Date of Test	:	01-06-22

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2022-06-13-13** **Date: 04-06-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub Division.(Additional)
Agency	:	Sri. Samba shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapuram, Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/42/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-06-22
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	01-06-22

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2022-06-13-13** **Date: 04-06-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub Division.(Additional)
Agency	:	Sri. Samba shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapuram, Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/42/2022-23
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	01-06-22
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	01-06-22

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	CP-RW-2022-06-13-13	**Date: 08-06-22**
Customer	:	Assistant Executive Engineer. Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division. BBMP. Bangalore.	
Project Name	:	Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub Division.(Additional)	
Agency	:	Sri. Samba shiva. No:04. 3rd Main Road. Chamundeshwari L/O, Doddabommasandra. Vidyaranyapuram. Bangalore-560097.	
Customer Reference	:	BBMP/EE/BTP/WO/42/2022-23	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	07-06-22	
Type of Mix	:	BC (Bituminous Concrete)	
Date of Test	:	07-06-22	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	469.5	470
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.10	6.00
4	Average percentage	%	6.1	

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2022-06-13-13**	**Date: 08-06-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub Division.(Additional)	
Agency	:	Sri. Samba shiva. No:04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapuram, Bangalore-560097.	
Customer Reference	:	BBMP/EE/BTP/WO/42/2022-23	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	07-06-22	
Type of Mix	:	BC (Bituminous Concrete)	
Date of Test	:	07-06-22	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	469.5	470
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.10	6.00
4	Average percentage	%	6.1	

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Lab ID : CP-RW-2022-06-13-13 Date: 08-06-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 469.5

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	6	6	1.3	98.7	90-100
9.5	62	68	14.5	85.5	70-88
4.75	119	187	39.8	60.2	53-71
2.36	88	275	58.6	41.4	42-58
1.18	29	304	64.7	35.3	34-48
0.6	16	320	68.2	31.8	26-38
0.3	46	366	78.0	22.0	18-28
0.15	48	414	88.2	11.8	12-20
0.075	36	450	95.8	4.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 470

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	5	5	1.1	98.9	90-100
9.5	62	67	14.3	85.7	70-88
4.75	116	183	38.9	61.1	53-71
2.36	88	271	57.7	42.3	42-58
1.18	29	300	63.8	36.2	34-48
0.6	16	316	67.2	32.8	26-38
0.3	46	362	77.0	23.0	18-28
0.15	41	403	85.7	14.3	12-20
0.075	42	445	94.7	5.3	4-10

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2022-06-13-13**	**Date: 10-06-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub Division.(Additional)	
Agency	:	Sri. Samba shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapuram, Bangalore-560097.	
Customer Reference	:	BBMP/EE/BTP/WO/42/2022-23	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	09-06-22	
Type of Mix	:	BC (Bituminous Concrete)	
Date of Test	:	09-06-22	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	469.4	468.9
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.12	6.22
4	Average percentage	%	6.2	

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Date: 10-06-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 469.4

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	7	7	1.5	98.5	90-100
9.5	62	69	14.7	85.3	70-88
4.75	112	181	38.6	61.4	53-71
2.36	87	268	57.1	42.9	42-58
1.18	29	297	63.3	36.7	34-48
0.6	16	313	66.7	33.3	26-38
0.3	50	363	77.3	22.7	18-28
0.15	39	402	85.6	14.4	12-20
0.075	40	442	94.2	5.8	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 468.9

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.9	99.1	90-100
9.5	65	69	14.7	85.3	70-88
4.75	112	181	38.6	61.4	53-71
2.36	88	269	57.4	42.6	42-58
1.18	29	298	63.6	36.4	34-48
0.6	12	310	66.1	33.9	26-38
0.3	48	358	76.3	23.7	18-28
0.15	42	400	85.3	14.7	12-20
0.075	50	450	96.0	4.0	4-10

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON BITUMEN

Date: 30-05-22

Lab ID	:	**CP-RW-2022-06-13-13**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub Division.(Additional)
Agency	:	Sri. Samba shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapuram, Bangalore-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/42/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-05-22
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)
Date of Test	:	28-05-22

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	65	60 to 70
2	Softening Point, °C	53.1	Min. 40°C
3	Ductility, cm	94	Min. 75cm
4	Flash point, °C	243	Min. 220°C
	Fire point, °C	275	

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-RW-2022-06-13-13 Date: 10-06-22

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub Division (Additional)

Agency : Sri. Samba shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapuram, Bangalore-560097.

Customer Reference : BBMP/EE/BTP/WO/42/2022-23

Sample Condition : Satisfactory

Date of Receipt : 09-06-22

Type of Mix : Tack coat

Date of Test : 09-06-22

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements

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QC ABSTRACT

NAME OF WORK: Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub Division.(Additional)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
18	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
20	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
21	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
22	TACK COAT	Rate of spread	One Test		1	1

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2022-06-13-13** **Date: 26-05-2022**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub Division.(Additional)
Agency	:	Sri. Samba shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapuram, Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/42/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-05-2022
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	24-05-2022
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	311	311	2.8	97.2	95-100
22.4	2259	2570	23.4	76.6	60-80
11.2	2179	4749	43.2	56.8	40-60
4.75	2256	7005	63.7	36.3	25-40
2.36	1626	8631	78.5	21.5	15-30
0.6	623	9254	84.1	15.9	8-22
0.075	1329	10583	96.2	3.8	0-5

* The results obtained are satisfactory as per standard requirements.

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Technical Manager

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TEST REPORT OF AGGEGRATE IMPACT VALUE

IS: 2386 Part IV

Lab ID	:	**CP-RW-2022-06-13-13**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub
Agency	:	Sri. Samba shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra,
Customer Reference	:	BBMP/EE/BTP/WO/42/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-05-2022
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadan
Date of Test	:	24-05-2022

Sl.No	Particulars of observations	Index
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)
5	Aggregate impact value	(B/A)*100
6	Aggregate impact value (Mean of two tests)	Pecentage

* The results obtained are satisfactory as per standard requirements.

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2022-06-13-13** **Date: 26-05-2022**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub Division.(Additional)
Agency	:	Sri. Samba shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapuram, Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/42/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-05-2022
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	24-05-2022

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.1%	
Combined Flakiness and Elongation Index for WMM	24.9%	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Date: 03-06-2022

Lab ID	:	CP-RW-2022-06-13-13
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub Division.(Additional)
Agency	:	Sri. Samba shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapuram, Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/42/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-06-2022
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of Test	:	01-06-2022
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Date: 04-06-2022

Lab ID	:	**CP-RW-2022-06-13-13**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub Division.(Additional)
Agency	:	Sri. Samba shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapuram, Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/42/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-06-2022
Type of Mix	:	BC(Bitumenous Concrete)
Date of Test	:	01-06-2022

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2022-06-13-13** **Date: 04-06-2022**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub Division.(Additional)
Agency	:	Sri. Samba shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapuram, Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/42/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-06-2022
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	01-06-2022

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2022-06-13-13** **Date: 04-06-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub Division.(Additional)
Agency	:	Sri. Samba shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapuram, Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/42/2022-23
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	01-06-22
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	01-06-22

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Date: 08-06-2022

Lab ID	:	CP-RW-2022-06-13-13
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub Division.(Additional)
Agency	:	Sri. Samba shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapuram, Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/42/2022-23
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	07-06-2022
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	07-06-2022

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	469.5	470
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.10	6.00
4	Average percentage	%	6.1	

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Lab ID : **CP-RW-2022-06-13-13** **Date: 08-06-2022**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 469.5

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	6	6	1.3	98.7	90-100
9.5	62	68	14.5	85.5	70-88
4.75	119	187	39.8	60.2	53-71
2.36	88	275	58.6	41.4	42-58
1.18	29	304	64.7	35.3	34-48
0.6	16	320	68.2	31.8	26-38
0.3	46	366	78.0	22.0	18-28
0.15	48	414	88.2	11.8	12-20
0.075	36	450	95.8	4.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 470

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	5	5	1.1	98.9	90-100
9.5	62	67	14.3	85.7	70-88
4.75	116	183	38.9	61.1	53-71
2.36	88	271	57.7	42.3	42-58
1.18	29	300	63.8	36.2	34-48
0.6	16	316	67.2	32.8	26-38
0.3	46	362	77.0	23.0	18-28
0.15	41	403	85.7	14.3	12-20
0.075	42	445	94.7	5.3	4-10

* The results obtained are satisfactory as per standard requirements.

Note:-

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CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.
R RUDRAPRASAD
Authorized Signatory
Technical Manager

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Date: 10-06-2022

Lab ID	:	**CP-RW-2022-06-13-13**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub Division.(Additional)
Agency	:	Sri. Samba shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapuram, Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/42/2022-23
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	09-06-2022
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	09-06-2022

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	469.4	468.9
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.12	6.22
4	Average percentage	%	6.2	

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Lab ID : **CP-RW-2022-06-13-13** **Date: 10-06-2022**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 469.4

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	7	7	1.5	98.5	90-100
9.5	62	69	14.7	85.3	70-88
4.75	112	181	38.6	61.4	53-71
2.36	87	268	57.1	42.9	42-58
1.18	29	297	63.3	36.7	34-48
0.6	16	313	66.7	33.3	26-38
0.3	50	363	77.3	22.7	18-28
0.15	39	402	85.6	14.4	12-20
0.075	40	442	94.2	5.8	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 468.9

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.9	99.1	90-100
9.5	65	69	14.7	85.3	70-88
4.75	112	181	38.6	61.4	53-71
2.36	88	269	57.4	42.6	42-58
1.18	29	298	63.6	36.4	34-48
0.6	12	310	66.1	33.9	26-38
0.3	48	358	76.3	23.7	18-28
0.15	42	400	85.3	14.7	12-20
0.075	50	450	96.0	4.0	4-10

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2022-06-13-13** **Date: 30-05-2022**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub Division.(Additional)
Agency	:	Sri. Samba shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapuram, Bangalore-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/42/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-05-2022
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)
Date of Test	:	28-05-2022

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	65	60 to 70
2	Softening Point, °C	53.1	Min. 40°C
3	Ductility, cm	94	Min. 75cm
4	Flash point, °C	243	Min. 220°C
	Fire point, °C	275	

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2022-06-13-13** **Date: 10-06-2022**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pot Hole Filling to Roads in Ward No.05 (Jakkur) Byatarayanapura Sub Division.(Additional)
Agency	:	Sri. Samba shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Doddabommasandra, Vidyaranyapuram, Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/42/2022-23
Sample Condition	:	Satisfactory
Date of Receipt	:	09-06-2022
Type of Mix	:	Tack coat
Date of Test	:	09-06-2022

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

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Technical Manager

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